

Contents

- Allain, H., Van den Driessche, J., Bentue-Ferrer, D., Reymann, J. M., Pape, D., Madigand, M.**
Plasmatic Renin Activity in Patients Treated With L-Dopa and Inhibitor of Dopa Decarboxylase (IDC) 197
- Anderson, W. H., see Stern, T. A.** 261
- Anisman, H., Remington, G., Sklar, L. S.**
Effect of Inescapable Shock on Subsequent Escape Performance: Catecholaminergic and Cholinergic Mediation of Response Initiation and Maintenance 107
- Bachman, J. A., Benowitz, N. L., Herning, R. I., Jones, R. T.**
Dissociation of Autonomic and Cognitive Effects of THC in Man 171
- Beleslin, D. B., Samardžić, R.**
Effects of 6-Hydroxydopamine and Reserpine on Aggressive Behavior Induced by Cholinomimetic and Anticholinesterase Injections Into Cerebral Ventricles of Conscious Cats: Dissociation of Biting Attack From Snarling and Hissing 149
- Benet, F., Denimal, J.**
Réactivité émotionnelle et équilibre neurovégétatif chez le rat 191
- Benowitz, N. L., see Bachman, J. A., et al.** 171
- Bentue-Ferrer, D., see Allain, H., et al.** 197
- Biegon, A., Segal, M., Samuel, D.**
Sex Differences in Behavioral and Thermal Responses to Pargyline and Tryptophan 77
- Bowers, M. B., Jr., Moore, D., Tarsy, D.**
Tardive Dyskinesia: A Clinical Test of the Supersensitivity Hypothesis 137
- Branconnier, R. J., Cole, J. O., Gardos, G.**
ACTH 4-10 in the Amelioration of Neuropsychological Symptomatology Associated With Senile Organic Brain Syndrome 161
- Brauzer, B., see Feighner, J. P., et al.** 217
- Braveman, N. S.**
The Role of Blocking and Compensatory Conditioning in the Treatment Preexposure Effect 177
- Carey, R. J.**
Facilitation of Responding for Rewarding Brain Stimulation by A High Dose of Amphetamine When Hyperthermia is Prevented 267
- Casper, R. C., see Schlemmer, R. F., et al.** 233
- Chesher, G. B., see Zaluzny, S. G., et al.** 207
- Church, M. W., Johnson, L. C.**
Mood and Performance of Poor Sleepers During Repeated Use of Flurazepam 309
- Ciofalo, V. B., see Patel, J. B., et al.** 25
- Clopton, J. M., see Clopton, P. L., et al.** 203
- Clopton, P. L., Janowsky, D. S., Clopton, J. M., Judd, L. L., Huey, L.**
Marijuana and the Perception of Affect 203
- Cocchi, D., see Kumakura, K., et al.** 13
- Cole, J. O., see Branconnier, R. J., et al.** 161
- Cooper, A. J.**
Tryptophan Antidepressant 'Physiological Sedative': Fact or Fancy? 97
- Costain, D. W., Green, A. R., Grahame-Smith, D. G.**
Enhanced 5-Hydroxytryptamine-Mediated Behavioural Responses in Rats Following Repeated Electroconvulsive Shock: Relevance to the Mechanism of the Antidepressive Effect of Electroconvulsive Therapy 167
- Costas, S. M., see Izquierdo, J. A., et al.** 29
- Cutler, M. G., Moore, M. R., Ewart, F. G.**
Effects of Delta-Aminolaevulinic Acid Administration on Social Behaviour in the Laboratory Mouse 131
- David-Remacle, M., see Sara, S. J., et al.** 71
- Davis, J. M., see Schlemmer, R. F., et al.** 233
- Denimal, J., see Benet, F.** 191
- Doherty, J., see Meltzer, H. Y., et al.** 63
- Driessche, J. Van den, see Allain, H., et al.** 197
- Duncan, P. M., Phillips, J., Reints, J., Schlechter, M. D.**
Interaction Between Discrimination of Drug States and External Stimuli 105
- Dung Lê, A., Khanna, J. M., Kalant, H., LeBlanc, A. E.**
Effect of L-Tryptophan on the Acquisition of Tolerance to Ethanol-Induced Motor Impairment and Hypothermia 125
- Durkin, T., see Ebel, A., et al.** 251
- Earley, C. J., see Egan, J., et al.** 143
- Ebel, A., Vigran, R., Mack, G., Durkin, T., Mandel, P.**
Cholinergic Involvement in Ethanol Intoxication and Withdrawal-Induced Seizure Susceptibility 251
- Egan, J., Earley, C. J., Leonard, B. E.**
The Effect of Amitriptyline and Mianserine (Org. GB94) on Food Motivated Behaviour of Rats Trained in a Runway: Possible Correlation With Biogenic Amine Concentration in the Limbic System 143
- Eikelboom, R., Stewart, J.**
Conditioned Temperature Effects Using Morphine as the Unconditioned Stimulus 31
- Einon, D. F., Sahakian, B. J.**
Environmentally Induced Differences in Susceptibility of Rats to CNS Stimulants and CNS Depressants: Evidence Against a Unitary Explanation 299
- Ewart, F. G., see Cutler, M. G., et al.** 131
- Faillace, L. A., see Guynn, R. W.** 155
- Fang, V. S., see Meltzer, H. Y., et al.** 63
- Feighner, J. P., Brauzer, B., Gelenberg, A. J., Gomez, E., Kiev, A., Kurland, M. L., Weiss, B. L.**
A Placebo-Controlled Multicenter Trial of Limbitrol Versus Its Components (Amitriptyline and Chlordiazepoxide) in the Symptomatic Treatment of Depressive Illness 217
- Feldman, R. S., see Standish, L. J.** 293
- Fernandez-Tome, M. P., Sanchez-Blazquez, P., Del Rio, J.**
Impairment by Apomorphine of One-Trial Passive Avoidance Learning in Mice: The Opposing Roles of the Dopamine and Noradrenaline Systems 43
- Fessler, R. G., see Meltzer, H. Y., et al.** 63
- Figallo, E. M., Wingard, L. B., Jr.**
Effects of Physostigmine, Scopolamine, and Mecamylamine on the Sleeping Time Induced by Ketamine in the Rat 59
- Frey, L. G., Winter, J. C.**
Comparison of the Discriminative Stimulus Properties of Nefopam and Morphine 231

- Furukawa, T.**, see Yamada, K. 255
- Gardos, G.**, see Branconnier, R. J., et al. 161
- Gelenberg, A. J.**, see Feighner, J. P., et al. 217
- Gerald, M. C., Gupta, T. K., Snider, R. M.**
Tolerance to Amphetamine-Induced Impairment of Rotarod Performance in Rats 317
- Giurgea, C.**, see Sara, S. J., et al. 71
- Gomez, E.**, see Feighner, J. P., et al. 217
- Graeff, F. G., Leone, C. M. L.**
Effect of Amphetamine on Nondiscriminated Key-Pecking Avoidance in Pigeons 91
- Grahame-Smith, D. G.**, see Costain, D. W., et al. 167
- Green, A. R.**, see Costain, D. W., et al. 167
- Gupta, T. K.**, see Gerald, M. C., et al. 317
- Guynn, R. W., Faillace, L. A.**
The Effect of the Combination of Lithium and Haloperidol on Brain Intermediary Metabolism in vivo 155
- Hays, S. E.**, see Rubin, R. T. 17
- Helmeste, D. M.**, see Tang, S. W., et al. 11
- Helps, S. C.**, see Overstreet, D. H., et al. 49
- Herning, R. I.**, see Bachman, J. A., et al. 171
- Hoffmann, M.**, see Kumakura, K., et al. 13
- Holtzman, S. G.**, see Shannon, H. E. 239
- Horita, A.**, see Lai, H., et al. 1
- Huey, L.**, see Clopton, P. L., et al. 203
- Iorio, L. C.**, see Patel, J. B., et al. 25
- Izquierdo, J. A., Costas, S. M., Justel, E. A., Rabiller, G.**
Effect of Caffeine on the Memory of the Mouse 29
- Jackson, D. M.**, see Sanders, J., et al. 281
- Jackson, D. M.**, see Zaluzny, S. G., et al. 207
- Janowsky, D. S.**, see Clopton, P. L., et al. 203
- Jobert, A.**, see Thiébot, M. H., et al. 85
- Johnson, L. C.**, see Church, M. W. 309
- Jones, R. T.**, see Bachman, J. A., et al. 171
- Judd, L. L.**, see Clopton, P. L., et al. 203
- Justel, E. A.**, see Izquierdo, J. A., et al. 29
- Kalant, H.**, see Dûng Lê, A., et al. 125
- Katz, R. J.**
Inhibition-Mediating Dopamine Receptors and the Control of Intracranial Reward 39
- Khanna, J. M.**, see Dûng Lê, A., et al. 125
- Kiev, A.**, see Feighner, J. P., et al. 217
- Klopf, F. H.**, see Kraemer, G. W., et al. 103
- Kraemer, G. W., Klopf, F. H., McKinney, W. T.**
Mutual Antagonism of Behavioral Effects of TRH and Thiobarbiturate on an Operant Task in Rhesus Monkeys 103
- Kumakura, K., Hoffmann, M., Cocchi, D., Trabucchi, M., Spano, P. F., Müller, E. E.**
Long-Term Effect of Ovariectomy on Dopamine-Stimulated Adenylate Cyclase in Rat Striatum and Nucleus Accumbens 13
- Kurland, M. L.**, see Feighner, J. P., et al. 217
- Lai, H., Makous, W. L., Horita, A., Leung, H.**
Effects of Ethanol on Turnover and Function of Striatal Dopamine 1
- LeBlanc, A. E.**, see Dûng Lê, A., et al. 125
- Leibowitz, S. F., Rossakis, C.**
L-Dopa Feeding Suppression: Effect on Catecholamine Neurons of the Perifornical Lateral Hypothalamus 273
- Leonard, B. E.**, see Egan, J., et al. 143
- Leone, C. M. L.**, see Graeff, F. G. 91
- Leung, H.**, see Lai, H., et al. 1
- Lingjaerde, O.**
Inhibitory Effect of Clomipramine and Related Drugs on Serotonin Uptake in Platelets: More Complicated Than Previously Thought 245
- Mack, G.**, see Ebel, A., et al. 251
- Madigand, M.**, see Allain, H., et al. 197
- Makous, W. L.**, see Lai, H., et al. 1
- Malor, R.**, see Zaluzny, S. G., et al. 207
- Mandel, P.**, see Ebel, A., et al. 251
- McKinney, W. T.**, see Kraemer, G. W., et al. 103
- Meltzer, H. Y., Fessler, R. G., Simonovic, M., Doherty, J., Fang, V. S.**
Effect of *d*- and *l*-Amphetamine on Rat Plasma Prolactin Levels 63
- Moore, D.**, see Bowers, M. B., et al. 137
- Moore, M. R.**, see Cutler, M. G., et al. 131
- Müller, E. E.**, see Kumakura, K., et al. 13
- Narasimhachari, N.**, see Schlemmer, R. F., et al. 233
- Nyback, H., Wiesel, F.-A., Skett, P.**
Effects of Piracetam on Brain Monoamine Metabolism and Serum Prolactin Levels in the Rat 235
- Overstreet, D. H., Russell, R. W., Helps, S. C., Runge, P., Prescott, A. M.**
Sex Differences Following Pharmacological Manipulation of the Cholinergic System by DFP and Philocarpine 49
- Pape, D.**, see Allain, H., et al. 197
- Patel, J. B., Ciofalo, V. B., Iorio, L. C.**
Benzodiazepine Blockade of Passive-Avoidance Task in Mice: A State-Dependent Phenomenon 25
- Phillips, J.**, see Duncan, P. M., et al. 105
- Prescott, A. M.**, see Overstreet, D. H., et al. 49
- Rabiller, G.**, see Izquierdo, J. A., et al. 29
- Reints, J.**, see Duncan, P. M., et al. 105
- Remington, G.**, see Anisman, H., et al. 107
- Reymann, J. M.**, see Allain, H., et al. 197
- Rio, J. del, see Fernandez-Tome, M. P., et al. 43**
- Rossakis, C.**, see Leibowitz, S. F. 273
- Rubin, R. T., Hays, S. E.**
Variability of Prolactin Response to Intravenous and Intramuscular Haloperidol in Normal Adult Men 17
- Runge, P.**, see Overstreet, D. H., et al. 49
- Russell, R. W.**, see Overstreet, D. H., et al. 49
- Sahakian, B. J.**, see Einon, D. F. 299
- Samardžić, R.**, see Beleslin, D. B. 149
- Samuel, D.**, see Biegón, A., et al. 77
- Sanchez-Blazquez, P.**, see Fernandez-Tome, M. P., et al. 43
- Sanders, J., Jackson, D. M., Starmer, G. A.**
Interactions Among the Cannabinoids in the Antagonism of the Abdominal Constriction Response in the Mouse 281
- Sara, S. J., David-Remacle, M., Weyers, M., Giurgea, C.**
Piracetam Facilitates Retrieval but Does Not Impair Extinction of Bar-Pressing in Rats 71

- Schechter, M. D.**, see Duncan, P. M., et al. 105
- Schlemmer, R. F., Jr., Casper, R. C., Narasimhachari, N., Davis, J. M.**
Clonidine Induced Hyperphagia and Weight Gain in Monkeys 233
- Segal, M.**, see Biegon, A., et al. 77
- Shannon, H. E., Holtzman, S. G.**
Morphine Training Dose: A Determinant of Stimulus Generalization to Narcotic Antagonists in the Rat 239
- Simonovic, M.**, see Meltzer, H. Y., et al. 63
- Skett, P.**, see Nybäck, H., et al. 235
- Sklar, L. S.**, see Anisman, H., et al. 107
- Snider, R. M.**, see Gerald, M. C., et al. 317
- Soubrié, P.**, see Thiébot, M. H., et al. 85
- Spano, P. F.**, see Kumakura, K., et al. 13
- Stancer, H. C.**, see Tang, S. W., et al. 11
- Standish, L. J., Feldman, R. S.**
Differential Effects of Chlordiazepoxide on Conditioned and Unconditioned Behavior in Mice With Septal Lesions 293
- Starmer, G. A.**, see Sanders, J., et al. 281
- Stern, T. A., Anderson, W. H.**
Benztropine Prophylaxis of Dystonic Reactions 261
- Stewart, J.**, see Eikelboom, R. 31
- Syme, G. J., Syme, L. A.**
Inhibition of Activity in Rats by Rubidium Chloride 227
- Syme, L. A.**, see Syme, G. J. 227
- Tang, S. W., Helmeiste, D. M., Stancer, H. C.**
The Effect of Clonidine Withdrawal on Total 3-Methoxy-4-Hydroxyphenylglycol in the Rat Brain 11
- Tarsy, D.**, see Bowers, M. B., et al. 137
- Taylor, M.**
Dietary Modification of Amphetamine Stereotyped Behaviour: The Action of Tryptophan, Methionine, and Lysine 81
- Thiébot, M. H., Jobert, A., Soubrié, P.**
Effets comparés du muscimol et du diazépam sur les inhibitions du comportement induites chez le rat par la nouveauté, la punition et le non-renforcement 85
- Trabucchi, M.**, see Kumakura, K., et al. 13
- Vigran, R.**, see Ebel, A., et al. 251
- Vogel-Sprott, M. D.**
Acute Recovery and Tolerance to Low Doses of Alcohol: Differences in Cognitive and Motor Skill Performance 287
- Weischer, M.-L.**
Einfluß von Lithium und Rubidium auf Neugieverhalten und lokomotorische Aktivität isoliert gehaltener männlicher Mäuse 263
- Weiss, B. L.**, see Feighner, J. P., et al. 217
- Weyers, M.**, see Sara, S. J., et al. 71
- Wiesel, F.-A.**, see Nybäck, H., et al. 235
- Wingard, L. B., Jr.**, see Figallo, E. M. 59
- Winter, J. C.**, see Frey, L. G. 231
- Yamada, K., Furukawa, T.**
Serotonergic Function in Mouse Head Twitches Induced by Lithium and Reserpine 255
- Zaluzny, S. G., Chesher, G. B., Jackson, D. M., Malor, R.**
The Attenuation by Δ^9 -Tetrahydrocannabinol and Morphine of the Quasi-Morphine Withdrawal Syndrome in Rats 207

Indexed in Current Contents

11

1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations

$$\begin{cases} \Delta u = f(x, y, u, v) \\ \Delta v = g(x, y, u, v) \end{cases} \quad (1)$$

in the domain D bounded by the curve Γ . The boundary conditions are assumed to be of the form

$$\begin{cases} u = \phi(x, y) \\ v = \psi(x, y) \end{cases} \quad \text{on } \Gamma \quad (2)$$

where ϕ and ψ are given functions. The functions f and g are assumed to be continuous in D and to satisfy the conditions

$$\begin{aligned} &f(x, y, u, v) \text{ and } g(x, y, u, v) \text{ are continuous in } D \\ &\text{and satisfy the conditions} \end{aligned} \quad (3)$$

$$\begin{aligned} &|f(x, y, u, v)| \leq M_1, \quad |g(x, y, u, v)| \leq M_2 \\ &\text{where } M_1 \text{ and } M_2 \text{ are constants.} \end{aligned} \quad (4)$$

It is assumed that the functions ϕ and ψ satisfy the conditions

$$\begin{aligned} &|\phi(x, y)| \leq M_3, \quad |\psi(x, y)| \leq M_4 \\ &\text{where } M_3 \text{ and } M_4 \text{ are constants.} \end{aligned} \quad (5)$$

Under these assumptions it is proved that the system of equations (1) has a solution in the domain D .

The second part of the paper is devoted to a study of the properties of the solutions of the system of equations (1).

It is shown that the solutions of the system of equations (1) are unique in the domain D .

It is also shown that the solutions of the system of equations (1) are continuous in the domain D .

Finally, it is shown that the solutions of the system of equations (1) satisfy the boundary conditions (2).

The third part of the paper is devoted to a study of the properties of the solutions of the system of equations (1) in the case where the functions f and g are not continuous in D .

It is shown that the solutions of the system of equations (1) are unique in the domain D even in this case.

It is also shown that the solutions of the system of equations (1) are continuous in the domain D even in this case.

Finally, it is shown that the solutions of the system of equations (1) satisfy the boundary conditions (2) even in this case.

2. The second part of the paper is devoted to a study of the properties of the solutions of the system of equations (1) in the case where the functions f and g are not continuous in D .

It is shown that the solutions of the system of equations (1) are unique in the domain D even in this case.

It is also shown that the solutions of the system of equations (1) are continuous in the domain D even in this case.

Finally, it is shown that the solutions of the system of equations (1) satisfy the boundary conditions (2) even in this case.

The third part of the paper is devoted to a study of the properties of the solutions of the system of equations (1) in the case where the functions f and g are not continuous in D .

It is shown that the solutions of the system of equations (1) are unique in the domain D even in this case.

It is also shown that the solutions of the system of equations (1) are continuous in the domain D even in this case.

Finally, it is shown that the solutions of the system of equations (1) satisfy the boundary conditions (2) even in this case.

The fourth part of the paper is devoted to a study of the properties of the solutions of the system of equations (1) in the case where the functions f and g are not continuous in D .

It is shown that the solutions of the system of equations (1) are unique in the domain D even in this case.

It is also shown that the solutions of the system of equations (1) are continuous in the domain D even in this case.

Finally, it is shown that the solutions of the system of equations (1) satisfy the boundary conditions (2) even in this case.

The fifth part of the paper is devoted to a study of the properties of the solutions of the system of equations (1) in the case where the functions f and g are not continuous in D .

It is shown that the solutions of the system of equations (1) are unique in the domain D even in this case.

It is also shown that the solutions of the system of equations (1) are continuous in the domain D even in this case.

Finally, it is shown that the solutions of the system of equations (1) satisfy the boundary conditions (2) even in this case.

The sixth part of the paper is devoted to a study of the properties of the solutions of the system of equations (1) in the case where the functions f and g are not continuous in D .

It is shown that the solutions of the system of equations (1) are unique in the domain D even in this case.

It is also shown that the solutions of the system of equations (1) are continuous in the domain D even in this case.

Finally, it is shown that the solutions of the system of equations (1) satisfy the boundary conditions (2) even in this case.